

Layout on the BNL Site

- Destinations
 - ◆ New Mexico
 - ★ 13.1° tilt
 - ◆ Soudan, MN
 - ★ 7.73° tilt
- Storage ring
 - ◆ Arc length (half) 53 m
- Above water table (45 ft + 10 ft clearance)
 - ◆ Forces hill to be built
 - ◆ Existing plateau at 90 ft, 10 ft cover
 - ★ Soudan, 40%: 24.2 m hill
 - ★ NM, 40%: 45.9 m hill
 - ★ NM, 35%: 28.0 m hill
- 200 m compressor ring
 - ◆ Avoids repeated compression in AGS
 - ◆ Near beamline out of AGS
- 550 m target thru cooling
- 275 m linac
- RLA with 365 m straights, 60 m radius arc
- No bending until after RLA
 - ◆ Need straight line distance over 1 km.
 - ◆ Forces eastern direction
- Keep close to existing infrastructure



